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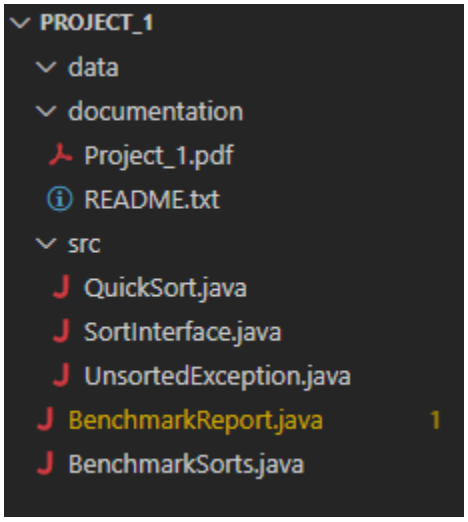
Course: CMSC 451
Date: 15NOV22

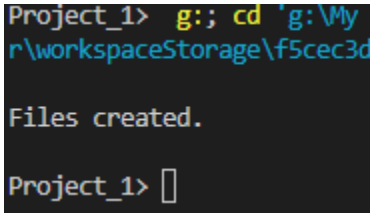
Project 1

My chosen project algorithm was quick sort. All of my references used are in the README.txt, as well as two basic instructions. (Basically just run BenchmarkSorts.java first to generate new text files) As well, below are screenshots of each stage of the process.

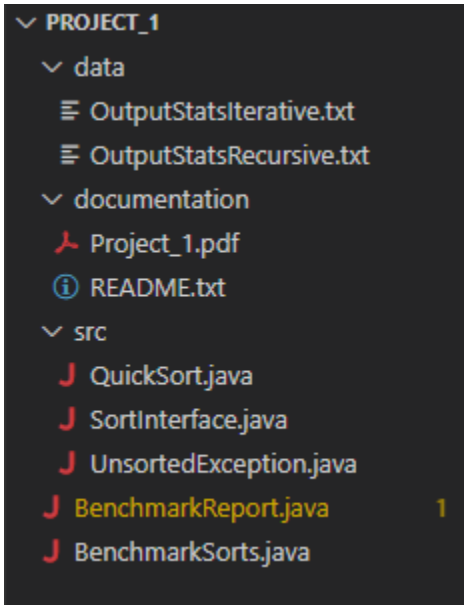
1.) File structure prior to running Benchmark program



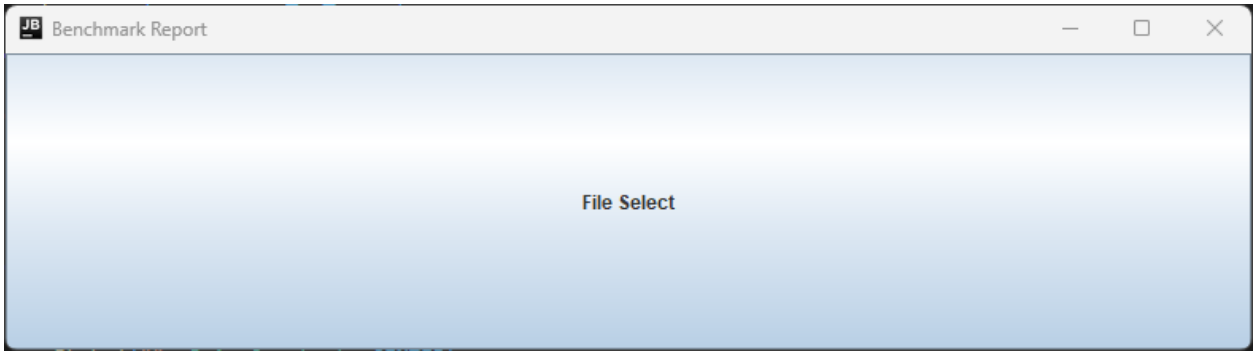
2.) Confirmation message of completion of file creation



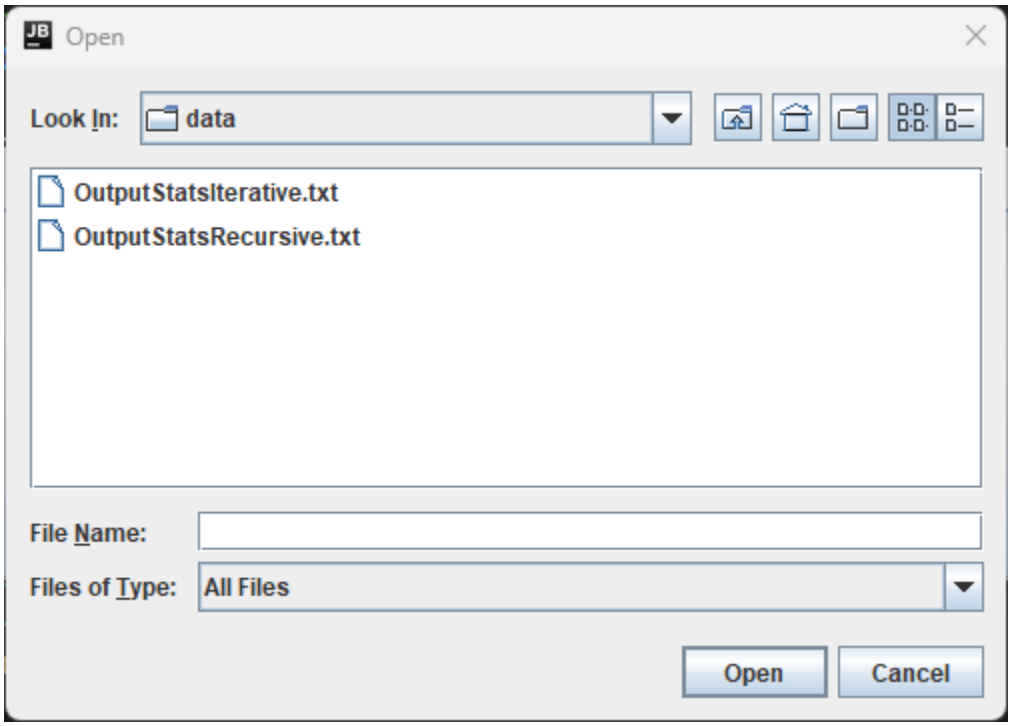
3.) File structure after running Benchmark program



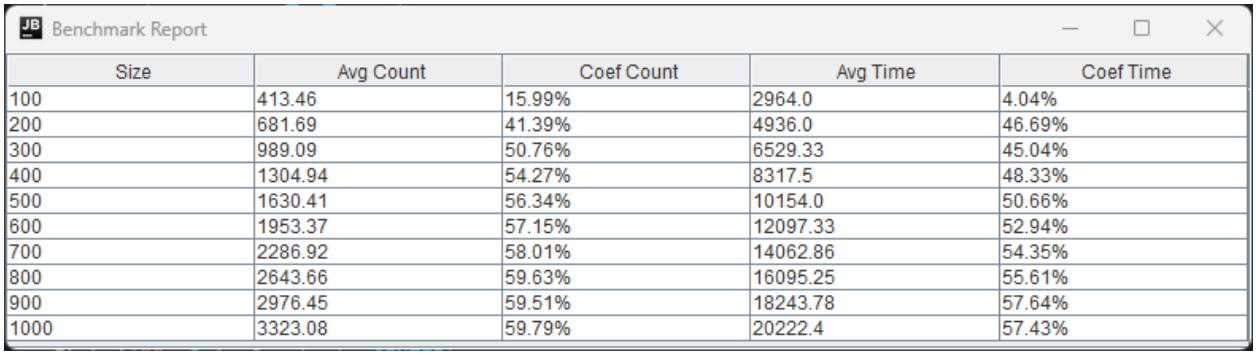
4.) Initial Report program opening



5.) Report program's file explorer

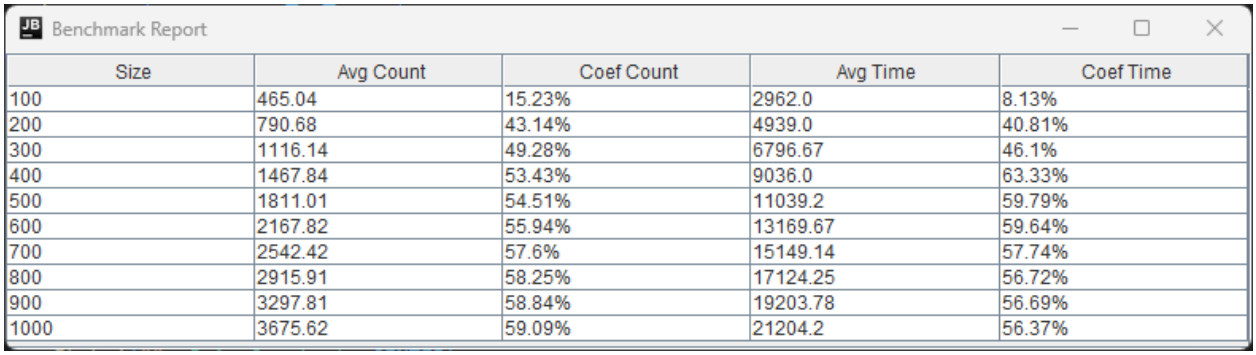


6.) Report program's output upon selection of recursive file



Size	Avg Count	Coef Count	Avg Time	Coef Time
100	413.46	15.99%	2964.0	4.04%
200	681.69	41.39%	4936.0	46.69%
300	989.09	50.76%	6529.33	45.04%
400	1304.94	54.27%	8317.5	48.33%
500	1630.41	56.34%	10154.0	50.66%
600	1953.37	57.15%	12097.33	52.94%
700	2286.92	58.01%	14062.86	54.35%
800	2643.66	59.63%	16095.25	55.61%
900	2976.45	59.51%	18243.78	57.64%
1000	3323.08	59.79%	20222.4	57.43%

7.) Report program's output upon selection of iterative file



Size	Avg Count	Coef Count	Avg Time	Coef Time
100	465.04	15.23%	2962.0	8.13%
200	790.68	43.14%	4939.0	40.81%
300	1116.14	49.28%	6796.67	46.1%
400	1467.84	53.43%	9036.0	63.33%
500	1811.01	54.51%	11039.2	59.79%
600	2167.82	55.94%	13169.67	59.64%
700	2542.42	57.6%	15149.14	57.74%
800	2915.91	58.25%	17124.25	56.72%
900	3297.81	58.84%	19203.78	56.69%
1000	3675.62	59.09%	21204.2	56.37%